

Notice of Allowability

Application No.

09/752,350

Examiner

Harry Vartanian

Applicant(s)

NOTANI, MORIHITO

Art Unit

2634

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 7/21/2004.
2. ☒ The allowed claim(s) is/are 15-22, 24-36 and 38-40.
3. ☒ The drawings filed on 12/29/2000 are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☒ All b) ☐ Some* c) ☐ None of the:
 1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☒ Interview Summary (PTO-413), Paper No./Mail Date _____
7. ☒ Examiner's Amendment/Comment
8. ☐ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____

Art Unit: 2634

DETAILED ACTION

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Brian S. Myers(Reg #46,947) on 11/24/2004.

The application has been amended as follows:

In Claim 15, please change the following in lines 23-26:

converted to the first and second remapped internal signals, respectively; [[and]]

(d) a switching means for providing and controlling circuit paths to route the first internal signal, the second internal signal, the first remapped internal signal, and the second remapped internal signal[[.]]; and

wherein said two-way signal conversion means makes the conversions between the first and second network signals which include at least one of:

two-way conversions between Synchronous Digital Hierarchy(SDH) signals and Synchronous Optical Network(SONET) signals;

two-way conversions between Plesiochronous Digital Hierarchy(PDH) signals; and

two-way conversions between Asynchronous Transfer Mode(ATM) signals.

In Claim 19, please change the following in lines 3-4:

a conversion from Tributary Unit 11 (TU-11) to TU-12;

a conversion from TU-11 to Virtual Tributaries 2(VT-2);

Art Unit: 2634

In Claim 21, please change the following in line 2:

the received first and second network signals contain Internet Protocol(IP) packets;

PLEASE CANCEL CLAIM 23

In claim 24, please change the following in line 3:

Administrative Unit (AU) pointer types identified.

In Claim 28, please change the following in line 14:

complies with the first network system; [[, and]]

In Claim 28, please change the following in line 26:

complies with the second network system;

(c) a looping back means for looping back, at the lower hierarchical level, the first and second lower-level signals from said first and second downward conversion means to said second and first upward conversion means respectively, to cause the lower-level signals deriving from the received first and second network signals to be converted to the first and second remapped internal signals, respectively; and

wherein the conversions between the first and second network signals include at least one of:

two-way conversions between Synchronous Digital Hierarchy(SDH) signals and

Synchronous Optical Network(SONET) signals;

two-way conversions between Plesiochronous Digital Hierarchy(PDH) signals; and

two-way conversions between Asynchronous Transfer Mode(ATM) signals.

In Claim 29, please change the following in line 11:

up to a higher hierarchical level which complies with the first or second network system; [[and]]

Art Unit: 2634

In Claim 29, please change the following in line 16:

signal to the first network system[[]]

wherein the conversions of the network signals include at least one of:

two-way conversions between Synchronous Digital Hierarchy(SDH) signals and Synchronous Optical Network(SONET) signals;

two-way conversions between Plesiochronous Digital Hierarchy(PDH) signals;

and two-way conversions between Asynchronous Transfer Mode(ATM) signals.

In Claim 33, please change the following in lines 3-4:

a conversion from Tributary Unit 11 (TU-11) to TU-12;

a conversion from TU-11 to Virtual Tributaries 2(VT-2);

In Claim 35, please change the following in line 3:

the received first and second network signals contain Internet Protocol(IP) packets;

PLEASE CANCEL CLAIM 37.

In Claim 38, please change the following in line 3:

identifying Administrative Unit (AU) pointer types of the first and second internal network signals;

In the specifications, please change the following in Pg. 16, line 18:

SONET Virtual Tributaries 2(VT-1.5) signals (1.5 Mbps) to SDH TU-12 signals

In the specifications, please change the following in Pg. 19, line 14:

of various Asynchronous Transfer Mode(ATM) interface specifications described in the

In the specifications, please change the following in Pg. 19, line 26:

transport Internet Protocol(IP) packets. Such media include: "IP over WDM,"

Art Unit: 2634


Any inquiry concerning this communication or earlier communications from the examiner should be directed to Harry Vartanian whose telephone number is 571.272.3048. The examiner can normally be reached on 10:00-6:30 Mondays to Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen Chin can be reached on 571.272.3056. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Harry Vartanian
Examiner
Art Unit 2634

HV



STEPHEN CHIN
SUPERVISORY PATENT EXAMINE
TECHNOLOGY CENTER 2800